Original /Duplicate/ Triplicate

DATED

DBR NO

Date:

Bill no:-1st &Final CONTRACTOR CERTIFICATE

No.

(For other Works)

Adm Sanction No. BBMP/JC/YLK/PR/AS/08/16-17 dt: 22/9/16 **Tech Sanction No.** BBMP/EE/YLK/PR/TS/52/16-17 Dt: 22/9/16

Divisio :Yelahanka **Sub Division:-**

DBR No 30/16-17 Date: DATED 29/11/16

Bill Received No. Date Cash Book Voucher No.

Scheduled Docket No. **Head of Account:-** P-3110

Name of work: Construction of Library building near venugopala Swamy Temple Road in Ward no-02.

Work code No: 002-16-000023

Name of Contractor: Technical manager(West) KRIDL BBMP

Reference to Agreement No:- 22/16-17 **Estimated cost RS:-50.00Lakhs** Work order no:- 21/16-17

Certified that the measurements were taken by me on 29-11-2016 and recorded on Page 41/13-14

3708-37528 41/13-14

Contractor **Officer-in-charge of work**

Priya Parshi

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

Certified that the measurements were taken by me on 29/11/16 and found correct. The Work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account. If have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

29/11/16

Sub-Division Officer

If Memorandum of Payment

1). Total values of work done or supplies made as per account within		
2). Deduct amount to be held reserve being _____ percent Rs.		
3). " Balance	Total Bill Amt	4,98,787-00
4). Deduct Payments:	ST -	99976-00
a). Amount of previous payment as in the office Cash Book Voucher	VAT -	19951-00
No_____ Dated _____ S.D.No:_____	CM	49988-00
Amount adjusted towards cash advance recovery of	CBF -	4999-00
b). Payments cost store or other materials supplied.	FSD -	249939-00
Now made recovery of amount creditable to his/other work	LR -	87479-00
Amount paid on this bill by Cheque/Cash		
5). Balance being unpaid value of work done held in reserve	Adj -	6,92,332-00
6). Deduct cash advance made on the Office Cash Book Voucher		
No._____dated _____ less adjustments		
7). Net amount due to or from contractor Unadjusted items		
8). Advance to contractor for materials brought to site (as detailed)	Cheque:	43,06,455-00
value of Government materials supplied.		

Contractor's Signature

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

Receive Rs._____ (in words) (For use in the office)

Audited & Admitted for Rs. 4998787-00

by cash and by adjustment of Payment as per memorandum.

43,06,455-00 by Cheque

Witness:

1

2

Receipt Stamp

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

Rs. 6,92,332-00 by Adjustment

Dated_____ Signature of Contractor

Paid by me by cheque No_____ Dated

Cash Rs._____ Dated

Accts. Supdt.
Project Division
B.B.M.P.

Exe. Engineer
Project Division
B.B.M.P.

8/12

Initials of Officer making payment **Executive Engineer**

S.NO	Discription's of items	Unit
1	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. (P5/2.1)	Cum
2	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m. In depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specifications. Specification. No. KBS 2.1(b) / 2.3.5 (P.5/2.4 PWD SR - 2015-	Cum
3	KSRB 2.8: Providing and Filling in foundation with granite / trap broken metal 100mm. And down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. Complete as per specifications. (P6/2.15)	Cum
4	KSRRB 4.1.2:- Providing and laying in position Plain Cement Concrete of mix 1:3:6 with OPC cement @ 220kgs ,with 40mm and down size graded granite metal coarse aggregates @ 0 .892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials,labour, HOM of machinery ,curing complete as per specifications. (P.12/4.2)	Cum
5	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specification. KBS 5.1.13 (P.23/5.6)	Cum
6	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (P.23/5.9)	Cum
7	KSRB 4-1.5:Providing and laying in position Plain Cement Concrete of mix M20 with OPC cement @ 300kgs ,with 20mm and down size graded granite metal coarse aggregates @ 0 .69 cum and fine aggregates @ 0.43cum ,with superplastisiser @ 3lts confirming to IS9 103-1999 Reaffirmed-2008,machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in **foundation,plinth and cills,** including cost of all materials,labour, HOM of machinery ,curing complete as per specifications.(P12/4.5)	Cum
8	KSRB 15.1.3 Providing flush pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.112/I.15.1)	Sqm
9	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. (P.6/2.10 PWD SR - 2015-16).	Cum
10	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of materials, labour complete as per specifications. (P15/4.28)	Sqm
11	KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square/ rectangular/polygon in plan including cost of all materials, labour complete as per specifications. (P16/4.32)	Sqm
12	KSRB 4-6.9: Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor, cills, plinth including cost of all materials, labour complete as per	Sqm
13	KSRB 4-6.7: Providing and removing centerign, shuttering strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of materials, labour complete as per specifications.(P16/4.34)	Sqm
14	KSRB 4-6.10 : Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2 (P.16/I.4.37)	Sqm
15	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.15/I.4.18)	Sqm

Unit	Schedule 'B'			Previous			Present Measurements			Total up to date		
	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount
Cum	77.20	156.88	43487.14				277.20	156.88	43487.14	277.20	156.88	43487.14
Cum	73.82	283.02	77496.54				273.82	283.02	77496.54	273.82	283.02	77496.54
Cum	99.28	2133.78	211841.68				99.28	2133.78	211841.68	99.28	2133.78	211841.68
Cum	73.45	5139.94	377528.59				73.43	5139.94	377425.79	73.45	5139.94	377425.79
Cum	73.92	4058.74	300022.06				73.92	4058.74	300022.06	73.92	4058.74	300022.06
Cum	7.43	4814.52	35771.88				7.43	4814.52	35771.88	7.43	4814.52	35771.88
Cum	53.29	5880.88	313392.10				53.28	5880.88	313333.29	53.29	5880.88	313333.29
Sqm	9.80	97.52	955.70				9.80	97.52	955.70	9.80	97.52	955.70
Cum	551.02	127.20	70089.74				551.02	127.20	70089.74	551.02	127.20	70089.74
qm	84.24	239.56	20180.53				84.24	239.56	20180.53	84.24	239.56	20180.53
qm	84.36	376.30	31744.67				84.36	376.30	31744.67	84.36	376.30	31744.67
m	64.27	703.84	45235.80				64.27	703.84	45235.80	64.27	703.84	45235.80
m	109.57	265.00	29036.05				109.57	265.00	29036.05	109.57	265.00	29036.05
m	10.89	278.78	3035.91				10.89	278.78	3035.91	10.89	278.78	3035.91
n	142.11	323.30	45944.16				142.11	323.30	45944.16	142.11	323.30	45944.16

16	KSRB 4.2.7 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement@340kgs, with 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for R.C.C beams, columns of all sizes in foundation plinth and superstructure ground floor level for roof slabs, staircase, lintels, columns, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 (P.13/I.4.12)	C	86	6438.4
17	KSRB 4.2.11: Providing and laying in position Plain Cement Concrete of mix M20 with OPC cement @ 24kgs ,with 12mm and down size graded granite metal coarse aggregates @ 0 .05175 cum and fine aggregates @ 0.0345cum ,with superplastisiser @ 0.225 lts machine mixed, concrete ,well compacted for plain chajja of 8.5 cms.average thickness,upto ground floor level, including cost of all materials,labour, HOM of machinery ,curing complete as per specifications. (No. KBS 4.1, 4.6 (P. 14/4.19 PWD SR - 2015-16).	Sq	89	519
18	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.TMT Bars Fe 500 (P17\4.46.3)	Tonn	.30	582
19	KSRB 5-14: Providing and constructing precast concrete solid blocks with compressive strength not less than 35Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P25/5.34)	Cum	8.28	9
20	Providing and laying flooring using prepolished, water cut/ gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to match shade of granite slabs include laying POP on finished surface,including cost of materials, labour charges, etc., complete as per specifications(p.107/14.47.1).	Sqm	8.33	2
21	KSRB 9.4-2: Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps) but including cost of materials. labour, HOM of machineries complete as per specifications. Specifications No, KBS 9.33 (page No. 51/Item No. 9.11)	Cum	0.42	10
22	KSRB: 9-27-1: Fixing of door frame in an existing opening including embeeding frame in floor and walls after cutting masonry for holdfasts for embeddding holdfast in cement concrete 1:3:6 of 20mm and down size granite matal painting two coats of coal tar to sides of frame making good the damages to walls and floor as reguired and diposal of the debries with lead upto 50m including cost of materials labour charges complete as per Specifications. (Page No. 56/ Item No. 9.80)	No's	5.00	
23	KSRB: 9-27-1: Fixing of door frame in an existing opening including embeeding frame in floor and walls after cutting masonry for holdfasts for embeddding holdfast in cement concrete 1:3:6 of 20mm and down size granite matal painting two coats of coal tar to sides of frame making good the damages to walls and floor as reguired and diposal of the debries with lead upto 50m including cost of materials labour charges complete as per Specifications. (Page No. 56/ Item	No's	9.00	
24	KSRB: 9-27-1: Fixing of door frame in an existing opening including embeeding frame in floor and walls after cutting masonry for holdfasts for embeddding holdfast in cement concrete 1:3:6 of 20mm and down size granite matal painting two coats of coal tar to sides of frame making good the damages to walls and floor as reguired and diposal of the debries with lead upto 50m including cost of materials labour charges complete as per Specifications. (Page No. 56/ Item	No's	2.00	
25	KSRB 9.10.2: Providing and fixing in position fully panelled Honne wood shutters for doors styles and rails of 40mm. Thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (eccluding cost of fixtures) Specification No. KBS 9.34 (page No. 51/Item No. 9.15)	Sqm	10.08	
26	KSRB 9.21.2: Providing and fixing in position half panelled Honne wood shutters for window&ventilatorsstyles and rails of 20mm. Thick with bottom and lock rails 75mm wide top rail and styles 100mm wide as per drawing and panels of 20mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (eccluding cost of fixtures) Specification No. KBS 9.34 (page No. 56/Item No. 9.65)	Sqm	0.90	

ix M25 mixed, s of all lintels, as per	C	6.86	6438.44	694450.14				107.86	6438.44	694450.14	107.86	6438.44	694450.14
OPC @ 0 chine floor per	Sq	10.89	519.40	5656.27				10.89	519.40	5656.27	10.89	519.40	5656.27
ding, wire and lete	Tonn	12.30	58229.25	716219.78				12.28 12.29	58229.25	~~715055.19~~ 715637-	12.30	58229.25	~~715055.19~~ 715637-
gth olid ing	Cum	208.28	945.52	196932.91				208.28	945.52	196932.91	208.28	945.52	196932.91
id ch ur	Sqm	138.33	2697.70	373172.84				138.33	2697.70	373172.84	138.33	2697.70	373172.84
s t s	Cum	0.42	108792.04	45692.66				0.42	108792.04	45692.66	0.42	108792.04	45692.66
	No's	5.00	1073.78	5368.90				5.00	1073.78	5368.90	5.00	1073.78	5368.90
	No's	9.00	727.16	6544.44				9.00	727.16	6544.44	9.00	727.16	6544.44
	No's	2.00	570.28	1140.56				2.00	570.28	1140.56	2.00	570.28	1140.56
	qm	10.08	4795.44	48338.04				10.08	4795.44	48338.04	10.08	4795.44	48338.04
	Sqm	0.90	3874.30	3486.87				0.90	3874.30	3486.87	0.90	3874.30	3486.87

27	KSRB 7.9: Providing and fixing M.S. Grill work for windows and ventilators weighing 21kg/sqm using M.S Flats or M.S. Square roads, or combination of M.S. flats and quare roads as per approved design drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12 (page No. 32/Item No.7.9)	K	3	90.10
28	Providing and fixing MS grill over exisiting compound wall as per using b16mmx16mm MS square rod at 150mm c/c spacing and 6mmx40mm MS flats at horizontal and 6mmx12mm MS flat for ornamtntal design and providing shp edge design at the verify of every vertical roads, incldluing welding grinding hereve necessray All the steel surface should be throughly cleaned free of rust and paited with and ect.. as pers pecification (Pg.42, Item No 7.36)	Sq	69	5789.72
29	KSRB 7.22 Providing , fabricating, assembling and fixing in position aluminium partition using 101.60mm x 44.45mm x 3.18mm aluminium, mat finish or lossy finish , anodized sections combination of plain , single groove and double groove embers should not exceed 0.60mc/c and bottom member of required lengths, joints itred and corner grinded sub dividing assembled frame should be stiffened with orner angles. Stripped and fixed with screws rawl plug and teakwood guttas to RCC olumn or masonry on sides. RCC lintels or beams at top and mosaic floor at bottom; ncluding cutting chistelling and making good with cement mortar to match the surface Providing and fixing 12mm.thick prelaminated sheet (Ecoboard - exterior grade)of approved colour for bottom panel of maximum height	Sqr		
	0.9m, and 5.50 mm thick plain or in headed glass for middle panel and top panel with glazing clips pf 9.05mm.x17.30mm.1.00mm. All the aluminium sections used should be treated for emoval of any rust and prevention of further rust formation and coated with greasy aterials for non adherence of mortar or any other sticky materials:The vertical members should be embedded in the flooring by making suitable size holes and fixing with cement mortar. All the frames should be thoroughly cleaned free from rust,scale or dirt. work should be carried out as per direction of engineer in-charge of the work with all lead and lift as per chief Architects drawing etc., complete to a degree of perfection.(aluminium section powered coated to a minium of 60-70 microns with exterior durable pure polyster grade powder of approved quality.)		1.86	31
30	KSRB 7.11:Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame of size 61.85x31.75mm bottom section 1.2mm thick,weight 0.695kg/m; sides and top sections 1.3 mm, thick, weight 0.659kg/m.shutter frame section comprising top and bottom section of size40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter sideouter 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutterinterlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with	Sqm		
	approved qualityof fixtures such as aluminium handles tower bolts etc.; providing andfixing 5.5mm. thick plain glass for shutters fitted with rubber beading allaluminium sections including cutting to required length, joints mitredsubdividing the frame tenonned and rivetted, in the assembled frame,stiffened with end clips for corners, angles etc., and fixed to the walls,lintels, floor beams/cills as the case may be, with necessary steelscrews, raul plugs or teak wood gatties including cutting masonry orconcrete and making good the original surface using cement mortar.(using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder ofapproved quality.)P.NO33/S.NO7.10.2)			20.25
31	KSRB 7.1: Providing and fixingin position collapsable steel shutters withsingleordoubleleafwithverticalchannel20mmx10mmx2mm braced with flat iron diagonals 20mmx5mm size, with top and bottom rails of T iron sections of 40x40x6mm with 38mm dia steel pulleys complete with bolt and nuts, locking arrangements, stopers, handles on borht sides with 7.5cms opeinings at 10cms. c to c applying a priming coat of red lead paint. cost of materials, labour, HOM of machinery complete as per specifications.(P31/7.1)	Sqm		5.04
32	KSRB 14.14.1:Providing Ceramic tiles of size 30x30cms of approved make, shade and size for walls treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. Ceramic Tiles of size 30x30cms 6mm thick.(page 105/Item no.	Sqm		7.65

Kg/sqm as per quired hinery	92.93	90.10	8372.99				92.93	90.10	8372.99	92.93	90.10	8372.99
n MS n MS eads, aned	Sqr 25.69	5789.72	148737.91				25.69	5789.72	148737.91	25.69	5789.72	148737.91
sing ons and led nd aic he of	Sqm											0.00
g or r e e	1.86	3180.00	5914.80				1.86	3180.00	5914.80	1.86	3180.00	5914.80
Sqm			0.00						0.00			0.00
	20.25	4047.08	81953.37				20.25	4047.08	81953.37	20.25	4047.08	81953.37
m	5.04	4465.78	22507.53				5.04	4465.78	22507.53	5.04	4465.78	22507.53
n	7.65	1191.44	9114.52				7.65	1191.44	9114.52	7.65	1191.44	9114.52

33	KSRB 14.17.1 : Providing skirting dado, rises of steps with coloured glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface using glazed tiles of approved make and size including cost of materials labour, complete as per specifications. Specification No. KBS 14.16., 14.17 Coloured glazed tiles 30x60cms 6mm thlck with border of size 30x10cms.(Page no. 94/ Item No. 14.41.2	Sqm	1504
34	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to **ceiling** including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.113/15.22)	Sqm	19
35	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4 to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.113/15.16)**(Inside Plastering)**	Sqm	2
36	KSRB15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications. (P.114/15.33)	Sqm	
37	KSRB 15.3.3 Providing 15mm thick cement plaster in single coat with cement mortar 1:6 to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P97/15.14)	Sqm	
38	KSRB15-3.11 : Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry and concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.113/15.19)	Sqm	
39	KSRB 8.6-8: Providing and fixing on wall surface 4.0Kg/Sqcm HDPE rain down water pipes 110mm outer dia. Approved makes and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications. (P47/8.19)	Rmt	19.80
40	KSRB 8.6-8: Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers including cost of all materials cost oif labour and scaffolding etc complete as per the specifications (P125/15.106)	Sqm	292.84
41	KSRB 15-14.1: Providing and applying painting in two coats with plastic Emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications and as per the directions of the Engineer in charge. (with Primer).(P116/15.51.2)	Sqm	437.25
42	KSRB 15-14.1: Providing and applying painting in two coats with plastic Emulsion paint of approved brand on ceiling surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications and as per the directions of the Engineer in charge. (with Primer).(P116/15.51.3)	Sqm	292.84
43	Providing externalwalls with textureing approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading&unloading, all lead and lift and other incidental charges including scaffolding and removing stains, complete as per specification.(P-134/15.103)	Sqm	321.5
44	KSRB13-1.1 : Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold watersupply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing ofpipes and fittings with one step CPVC solvent cement & the cost ofcutting chases & making good the same including testing of jointscomplete. (Concealed work including cutting chases and good the wallsetc.). **20mm nominal OD pipes** (P-96 & 13.86.2).	M	30.0
45	KSRB13-1.1 : Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold watersupply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing ofpipes and fittings with one step CPVC solvent cement & the cost ofcutting chases & making good the same including testing of jointscomplete. (Concealed work including cutting chases and good the wallsetc.). **25mm nominal OD pipes**(P-96 & 13.86.3).	M	35

m thick glazed as per n thick	Sq.3	1504.14	51486.71				34.23	1504.14	51486.71	34.23	1504.14	51486.71
1:3, to g and tions.	Sq	4.41	193.98	28012.65				144.41	193.98	28012.65	144.41	193.98	28012.65
brick and ions.	Sq	92.84	222.60	65186.18				292.84	222.60	65186.18	292.84	222.60	65186.18
ials,	Sq	37.25	25.44	11123.64				437.25	25.44	11123.64	437.25	25.44	11123.64
rick and ns.	Sqr	26.22	168.54	21273.12				126.22	168.54	21273.12	126.22	168.54	21273.12
to oth ng	Sqm	321.50	235.32	75655.38				321.43	235.32	75638.91	321.50	235.32	75638.91
es d s	Rmtr	19.80	601.02	11900.20				19.80	601.02	11900.20	19.80	601.02	11900.20
g e t	Sqm	292.84	57.24	16762.16				292.84	57.24	16762.16	292.84	57.24	16762.16
	Sqm	437.25	90.10	39396.23				437.25	90.10	39396.23	437.25	90.10	39396.23
	Sqm	292.84	94.34	27626.53				292.84	94.34	27626.53	292.84	94.34	27626.53
	Sqm	321.50	297.86	95761.99				321.43	297.86	95741.14	321.50	297.86	95741.14
M		30.00	222.60	6678.00				30.00	222.60	6678.00	30.00	222.60	6678.00
		35.00	265.00	9275.00				35.00	265.00	9275.00	35.00	265.00	9275.00

46	KSRB13-1.1 : Providing and fixing Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot) size 12.5cms x7.5cms (P-88 & 12.113.2.	Ea0	302.1
47	KSRB13-1.1 :Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia.(P-88 & 12.111).	Ea00	169.
48	KSRB13-1.1 :Providing and fixing in position brass gate valve withC.I wheel of approved quality (screwed end) 25mm nominal boreincluding cost of all materials, labour and HOM of equipments with allleads complete as per specifications..(P-91 & 13.34).	Ea00	625.
49	KSRB13-1.1 :Providing and fixing to wall, ceiling and floor, low densitypolyethylene pipes 6.00 kgf/sq.cm working pressure **140mm outsidediameter** with special flange, compression type fittings, wall clips, makinggood the wall, ceiling and floor, including cost of all materials, labourcharges, HOM of equipments and testing complete as per specifications..(P-93 & 13.70.6).	M.00	561
50	KSRB13-1.1 Constructing brick masonry inspection chamber 455x610 mm, and 450 mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5 in C.I.cover with frame (light duty 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R CC Top slab with cement concrete1:2:4 mix 20 mm and downsize granite metal, foundation concrete 1:5:10 with 40 mm and down size granite metal inside plastering 12 mm rhick with cement mortar 1:3 finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications.(P-73 & 11.50).	Eac.00	68
51	KSRB 11-11.8 :Providing ,supplying & commissionig of 1 H.P submersible single phase of Make ATLANTA/SUGUNA/CRI/KIRLOSKAR/OTER EQUIVALENT PUMPS. (Page : 81 Item No. 12.30)	Unit1.00	12
52	KSRB 11-11.8 : Providing and fixing white vitreous china clay, surgeon type wash basin size 660 x 460 with a pair of 15 mm C.P. brass pillar taps with pair of elbow operated levers, C.I./M.S. brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour, curing complete as per specification. KBS 11 (Page : 81 Item No. 12.30)	Unit 2.00	
53	KSRB 13-6.1-1 : Providing and fixing in position brass bib cock of approved quality 25 mm nominal bore including cost of all materials, labour and HOM of equipments with all leads, complete as per specifications. Specification No. KBS 13.2.2/13.3 (Page No.91 & Item No.	Each 2.00	
54	KSRB 11-2 : Providing and fixing white vitreous china clay, water closet Orissa Pattern of size 580 x 440 mm with integral type footrest, 100mm S or P trap, 10 litre low level, P.V.C. flushing cistern (all are approved make) with fittings, C.I./M.S. brackets, 32 mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25 mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour, curing complete as per specification. KBS 11 (Page : 77 Item No. 12.2)	Pan 2.00	
55	Supplying water storage tanks made of virgin polymer (LLDPE) with two layers outer black or blue and inner white layer of approved quality and make, confirming to ISI/ISO?SSI Specification (Page no258 Item no 37.58)	Ltr 750.00	
56	KSRB 11-15.3: Providing and fixing 453x357mm rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing incluidng cost of materials, labour complete as per specifications.(Page : 82 Item No. 12.41)	Unit 2.00	
57	Applying Primer coat over new wood surface and / or wood based surface with white lead paint priming including preparing the surface afetr throughly cleaning oil, grease, dirt and other foreign matter, sand papering and knotting ready mix paint including cost of materials, labour complete as per Specifications (P No. 118 Item No.15.58 PWD SR 2015-16)	Sqm 28.89	
58	Providing and Applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, clening the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications (P No. 118Item No.15.60.1 PWD SR 2015-16)	Sqm 28.8	
59	Providing and laying in Mat for RCC roof at below the steel for avoiding concrete cement slurry as per the requirement of Engineer incharge.(Approved Data Rates)	Sqm 135.	
60	Providing and applying enamel metal paint two coats(excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as perspecifications.(P No. 120Item No.15.74.1 PWD SR 2015-16)	Sqm 20.	

g to ISI f cost of (P-88 &	Ea	00	302.10	604.20				2.00	302.10	604.20	2.00	302.10	604.20
(P-88 &	Ea	00	169.60	339.20				2.00	169.60	339.20	2.00	169.60	339.20
quality (oments	Ea	00	625.40	1250.80				2.00	625.40	1250.80	2.00	625.40	1250.80
s 6.00 n type erials, 70.6).	Mt	0.00	561.80	16854.00				30.00	561.80	16854.00	30.00	561.80	16854.00
lepth, class ernal and size side t on our	Eac	2.00	6831.70	13663.40				2.00	6831.70	13663.40	2.00	6831.70	13663.40
ke 0)	Unit	1.00	12600.00	12600.00				1.00	12600.00	12600.00	1.00	12600.00	12600.00
60 S. g g	Unit	2.00	6831.70	13663.40				2.00	6831.70	13663.40	2.00	6831.70	13663.40
n ,	Each	2.00	284.08	568.16				2.00	284.08	568.16	2.00	284.08	568.16
	Pan	2.00	4572.84	9145.68				2.00	4572.84	9145.68	2.00	4572.84	9145.68
	Ltr	750.00	6.36	4770.00				750.00	6.36	4770.00	750.00	6.36	4770.00
	Unit	2.00	1230.66	2461.32				2.00	1230.66	2461.32	2.00	1230.66	2461.32
	Sqm	28.89	30.74	888.08				28.89	30.74	888.08	28.89	30.74	888.08
	qm	28.89	85.86	2480.50				28.89	85.86	2480.50	28.89	85.86	2480.50
	qm	135.16	65.00	8785.40				135.16	65.00	8785.40	135.16	65.00	8785.40
	m	20.25	83.74	1695.74				20.25	83.74	1695.74	20.25	83.74	1695.74

61	Supplying and wiring adoptiong loop system in existing PVC conduit /casing caping using copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose legnth in a wood/PVC round block, complete for each outlet. (P.4/I.8.I.C) Electrical-SR 2015-16)		
	b) Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch		00 175.0
	c) Long point above 6Mtr upto 10Mtr from tapping point to out let via switch		00 368.0
62	Supplying 6A flush /projected type socket and a 6 amps flush/projected type SP switch either surface mounting in a gang box or in a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required. (P.6/I.12a) Electrical -SR 2015-16)		N.00 91.0
63	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work complete. (P.4/I.6) Electrical -SR 2015-16)	Ea	
	b) 12"x12"x3"		.00 98
	c) 10"x7"x3"		.00 68
64	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches regulated etc.., and fixing on existing wooden or metal box using N.F. screws.., (P.10/I.22) Electrical SR - -SR 2015-16)	Sq cm	00.00
65	Extra for groove cutting, plastering and colour washing for embedding PVC conduit/GI pipe and plastering finishing the wall upto wall surface complete upto 50mm conduit in brick in wall (P.3/I.7a) Electrical-SR 2015-16)	Rmt	10.00
66	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit..... The pit should be filled with equal proportion of salt and charcoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc, is to be established through GI wire of size as per IS1 specification 7.3.3 of IS 732 using 12 mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 122 mm dia. (P.68/I.2)	Each	1.00
67	Supplying and fixing of porcelain fuse chanel with cut out on existing wooden/panel using ncessary nuts, bolts and washers etc complete (P.32/I.3a) Electrical -SR 2015-16)	Each	6.00
68	Supplying 20mm dia 2mm thick heavy guage PVC conduit pipe with suitable size bends, metal junction boxes, adhesive paste etc and running before concreting the slabs. The conduit should be tied to the reinforcement roads by using binding wire and unused ways of junction boxes and pipe ends should be covered using PVC and enclosures and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. (P.2/I.2a) Electrical -SR 2015-16)	Rmtr	110.00
69	Supplying and fixing PBBC brass/Bakelite straight or slant batten holder and wiring, within 60W/230 Volts lamps. (P.13/I.12a) Electrical -SR 2015-16)	No.	6.00
70	Supply patty type fluorescent tube light fitting of 4 feet 40 watts fluorescent tube of 230 volts made of M.S. sheet and stove enameled with heavy duty polyfill aluminum choke, starter, locking type brass contact holders mounted on foldable type sheet base fully wired.for use on 230 volts AC supply including 1 Nos 4'-36/40 watts fluorecent tube A Group (P.16/I.2a) Electrical -SR 2015-16)	No	9.00
71	Wiring for lighting / power circute using one of PVC insulated 1100v/grade multies and copper conductor single core cable in open or consealed system of wiring A Group materials 1.50 Sqmm materials (P.9/I.20Ib) Electrical -SR 2015-16)	Rmtr	400.00
72	Supplying and running of GI / Copper conductor for grounding & (along with other wires of CTS or conduit system of wiring) using if necessary suitable size clamps bolts nuts and washers etc. (P.68/I.3Ic) Electrical -SR 2015-16)	Rmtr	24.00
73	Supplying and fixing miniature circuit breakers/Isolators on existing MCB distribution boards using necessary fixing materials and wiring complete as required (P.36/I.12Ba) Electrical -SR	No.	6.00
74	Supplying capacitor type ceiling fan complete with down rod blades, shakle, regulator canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system and as per technical data approved (Almanord, Unique ISI, Anchor, Crompton, Khaitan, Bajaj, Usha, Johnson make) (P.23/I.23IIa) Electrical -SR 2015-16)	Nos	6.00
75	Fixing a ceiling fan of all capacities and all types to the existing S hook with fan regulator to the existing board together with supplying and fixing a 5 ampers ceiling rose, necessary length of 23/0.0076 inch PVC insulated twin twisted copper wire and wiring completely. (P.29/I.8) Electrical -SR 2015-16)	Nos	6.0

g copper ol switch shall be n outlet.	N												0.00
	.00	175.00	1225.00				7.00	175.00	1225.00	7.00	175.00	1225.00
	.00	368.00	1840.00				5.00	368.00	1840.00	5.00	368.00	1840.00
n either ounted al -SR	No	0.00	91.00	910.00				10.00	91.00	910.00	10.00	91.00	910.00
12mm ctrical	Eac												0.00
		4.00	98.00	392.00				4.00	98.00	392.00	4.00	98.00	392.00
		5.00	68.00	340.00				5.00	68.00	340.00	5.00	68.00	340.00
and 015-	Sq. cm	000.00	0.22	660.00				3000.00	0.22	660.00	3000.00	0.22	660.00
and wall	Rmtr	110.00	14.00	1540.00				110.00	14.00	1540.00	110.00	14.00	1540.00
ner a he ed s,	Each	1.00	3000.00	3000.00				1.00	3000.00	3000.00	1.00	3000.00	3000.00
g	Each	6.00	54.00	324.00				6.00	54.00	324.00	6.00	54.00	324.00
	Rmtr	110.00	32.00	3520.00				110.00	32.00	3520.00	110.00	32.00	3520.00
	No.	6.00	60.00	360.00				6.00	60.00	360.00	6.00	60.00	360.00
	No	9.00	400.00	3600.00				9.00	400.00	3600.00	9.00	400.00	3600.00
	Rmtr	400.00	15.00	6000.00				400.00	15.00	6000.00	400.00	15.00	6000.00
	mtr	24.00	221.00	5304.00				24.00	221.00	5304.00	24.00	221.00	5304.00
	lo.	6.00	370.00	2220.00				6.00	370.00	2220.00	6.00	370.00	2220.00
	os	6.00	1900.00	11400.00				6.00	1900.00	11400.00	6.00	1900.00	11400.00
	s	6.00	105.00	630.00				6.00	105.00	630.00	6.00	105.00	630.00

76	Supplying and fixing 32mm dia class A GI pipe bracket upto 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluoroscent tube street light fitting of all capacities to GI or CI or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete. (P.28/I.12b) Electrical-SR 2015-16)	Nos	00
77	Digging of trench of 0.6m deep x 0.50mtr wide refiling the trench to the required ground level and consolidating etc., complete. In Hard Soil (P.70/I.6b) Electrical -SR 2015-16)	Rmt	0.00
78	KRIDL CHARGES		
79	Bescom electric deppossite charges		

Assistant Engineer
Project Sub Division

able angle cities to GI g suitable	No	6.00	685.00	4110.00				6.00	685.00	4110.00	6.00	685.00	4110.00
level and	Rm	20.00	50.00	1000.00				20.00	50.00	1000.00	20.00	50.00	1000.00
			Total RS	**4577649.71**					**Total RS**	**4576286.19**		**Total RS**	**4576286.19**
													411970
													10000
								Grand Total RS			**Grand Total RS**		49,99,420

45,76869-
4119 18-
10,000-

Add KRIDL Charge 8+1=9%.
Bescom electric deppo site charge

Assistant Executive Engineer
Project Sub Division
Bruhath Bangalore Mahanagara Palike

Executive Engineer
Bruhath Bangalore Mahanagara Palike
Project division

Total Bill Amt = 49,98,787